

L5 ANSWER 122 OF 575 CA COPYRIGHT 2004 ACS on STN
 AN 132:211720 CA
 ED Entered STN: 07 Apr 2000
 TI Manufacture of light-weight hollow wallboard with high strength and low production cost
 IN Wan, Yunzhong
 PA Loading and Unloading Service Co., Neijiang Vehicle Section, Peop. Rep. China
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.
 CODEN: CNXXEV
 DT Patent
 LA Chinese
 IC ICM C04B020-00
 CC 58-4 (Cement, Concrete, and Related Building Materials)
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | CN 1178202 | A | 19980408 | CN 1997-107756 | 19971103 |
| PRAI | CN 1997-107756 | | 19971103 | | |

AB The wallboard is prepd. from **cement** 45-55, expanded material 10-15, **fly ash** 30-35, **gypsum** 4-7, **water** 40-55 wt.%, and glass fiber. The manuf. process comprises: mixing **cement** with **gypsum** and **fly ash**, adding expanded material under stirring, mixing with **water** to obtain a micro-foamed **slurry** (450-560 kg/m³), pouring the **slurry** into a mold, laying a layer of glass fiber, putting a mold core into the mold, adding **slurry** to 2/3 designed thickness, laying another layer of glass fiber, adding **slurry** to designed thickness, settling for 1-1.5 h, removing the mold core, de-molding after 4 h, and curing. Preferably, the expanded material is expanded vermiculite or perlite;.

ST light wt hollow wallboard strength prodn cost; **cement** light wt hollow wallboard; expanded vermiculite light wt hollow wallboard; expanded perlite light wt hollow wallboard; **fly ash gypsum** glass fiber wallboard; **gypsum fly ash** glass fiber wallboard; glass fiber **fly ash gypsum** wallboard

IT Perlite
 RL: PEP (Physical, engineering or chemical process); TEM (Technica